

81SA-DA 894

JUSTIFICATION OF ESTIMATES FOR FY 1991 BUDGET DEPARTMENT OF THE ARMY

SUBMITTED TO CONGRESS

JANUARY 1990



DESTRUBUTION STATISMENT A Approved for public releases Distribution Unlimited



AIRCRAFT PROCUREMENT, ARMY PROGRAMS

WEAPONS AND TRACKED COMBAT VEHICLES **AMMUNITION AIRCRAFT**

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DEPARTMENT OF THE ARMY
Office of the Assistant Secretary of the Army
(Financial Management)

DEPARTMENT OF THE ARMY

AIRCRAFT PROCUREMENT , ARMY

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AIRCRAFT PROCURENEUT, ARMY

Section 1

Budget Appendix Extract

Program and Financing Schedule Appropriation Language

Unennounced Justification Accession For NTIS GRALI DTIC TAB

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STATEMENT "A" per Bill Schultz SAFM-BY-P TELECON 3/6/90

APPROPRIATION LANGUAGE

appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$3,715,480,000 in fiscal year 1990 to remain available for obligation until September 30, 1992, and \$1,583,200,000 in fiscal year 1991 to remain available for obligation until September 30, 1993. and private plants, including the land necessary therefor, for the foregoing purposes, aircraft, equipment, including ordnance, ground handling equipment, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, For construction, procurement, production, modification, and modernization of

Aircraft Procurement, Army Program and Financing (in Thousands of dollars) SUMMARY

		udget Plan action	(amounts for s programed)	PROCUREMENT		Obligations	
Identif	code	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
00.0101 00.0201 00.0301	Program Direct Airc Modi Spar Supp	1,409,508 773,731 547,316 547,316	1,912,948 1,045,331 534,090 223,111	7,57	1,371,350 812,853 584,369 191,213	1,819,512 1,101,961 473,580 225,135	840,540 679,889 68,066 258,591
1016.00	Total direct program	2,855,205	3,715,480	1,583,200	2,959,785	3,620,188	1,847,086
01.0101	æ	53,253	006,00	53,600	62,899	69,521	53,600
10.0001	Total	2,908,458	3,775,780	1,636,800	3,025,684	3,689,709	1,900,686
11.0001 13.0001 14.0001	Financing: Offsetting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-) Recovery of prior year obligations	-30,837 -22,416	-46,496 -13,311 -493	-39,796 -13,311 -493	-28,249 -22,022 -30,981	-46,496 -13,311 -493	-39,796 -13,311 -493
21.4002	For completion of prior year budget Available to finance new budget Available to finance new budget plan	-44,800	-8,333	-16,000	-695,252 -44,800	-600,666 -8,333	-686,737 -16,000
22.4001 23.4090	Napricylaming Fromtic pilor year couper Unobligated balance transferred to other Reduction pursuant to P.L. 99-177 in unob Unobligated halance available and of ves	40,675	3,333		40,675	8,333	
24.4002 24.4003 25.0001	For completion of prior year budget Available to finance subsequent year Unobligated balance lapsing	8,333	16,000		600,666 8,333 7,147	686,737 16,000	422,851
39.0001	Budget authority	2,861,200	3,731,480	1,567,200	2,861,200	31,	67,2
40.0001 40.0004 40.0005 40.0090 41.0001	Budget authority: Appropriation Reduction pursuant to P.L. 100 Reduction pursuant to P.L. 101 Reduction pursuant to P.L. 101 Transferred to other accounts Transferred to other accounts	2,883,70 -91,58	89,93 -1,05 44,79 12,60	1,583,20	83,70 -91	3,789,937 -1,058 -44,799 -12,600	1,583,200
43.0001	Appropriation (adjusted)	2,861,200	3,731,480	1,567,200	2,861,200	3,731,480	1,567,200

Aircraft Procurement, Army Program and Financing (in Thousands of dollars) SUMMARY

111111				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Identific	Identification code	Identification code 21-2031-0-1-051	1989 actual	1990 est.	1990 est. 1991 est.
71.0001 72.4001 74.4001 77.0001	Obligations Obligations Obligated ba Obligated ba Adjustments	Relation of obligations to outlays: 71.0001 Obligations incurred, net 72.4001 Obligated balance, start of year 74.4001 Obligated balance, end of year 77.0001 Adjustments in expired accounts (net)	2,975,413 3,629,409 1,847,086 4,062,411 4,158,855 4,905,264 -4,158,855 -4,905,264 -3,789,250	3,629,409 4,158,855 -4,905,264	1,847,086 4,905,264 -3,789,250
90.0001	78.0001 Adjustments in unexpire 90.0001 Outlays	Adjustments in unexpired accounts Outlays	-30,981 	2,683,000	2,963,100

Aircraft Procurement, Army Object Classification (in Thousands of dollars) SUMMARY

Identifi	Identification code		1989 actual	1990 est.	1991 est.
۵	Direct obligations:	Direct obligations:	1 1 3 4 4 1 1 1 1	1 1 1 1 1 1 1 1	t 1 1 1 1 1 1 1 1
	Other services:				
125.004	Other		668,603	505,225	542,307
126.001	Supplies and materials	3 32(0)(0)	496,530	526,035	564,645
131.001	Equipment		1,794,652	2,568,928	740,134
				1111111111	
199.001	199.001 Total Direct obligations	: obligations	2,959,785	3,620,188	1,847,086
α	Reimbursable obligations:	obligations:			
	Other services:				
225.004	Other		14,886	8,618	8,618
226.001	Supplies and materials	1 materials	11,055	8,973	8,973
231.001	Equipment		39,958	51,930	36,009

299.001		Total Reimbursable obligations	65,899	69,521	53,600
			1 1 1 1 1	1	
999.901	999,901 Total obligations	itions	3,025,684	3,689,709	1,900,686

Aircraft Procurement, Army Program and Financing (in Thousands of dollars) FISCAL YEAR 1987

			Budget Plan actions	Budget Plan (amounts for PROCUREMENT actions programed)	PROCUREMENT		Obligations	tions
Identifi	Identification code	21-2031-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
u.	Program by activities:	ivities:	1 1 1 1 1 1 1 1 1	4 5 6 6 6 7 1 1 1 1		! 6 1 1 1 1 1 1 1	r 	• • • • • • • • • • • • • • • • • • •
00.0101	Aircraft					52 831		
00.0201	Modificati	Modification of aircraft				55, 163		
00.0301	Spares and Support eq	Spares and repair parts Support equipment and facilities				10,835		
			1 []]]	:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
00.9101	Total dire	Total direct program				135,355		
1010.10	Reimbursable program	program				257		
10.0001	Total		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	† ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	135,612		
·	•							
L	rinancing: Offsetting c	nancing: Offsetting collections from:						
11.0001	Federal funds(-)	nds(-)				2 017		
13.0001	Trust funds(-)	2(-)				22		
17.0001	Recovery of	Recovery of prior year obligations				-22,939		
	ວັ	Unobligated balance available, start of year:						
21.4002		tion of prior year budget plans				-115,568		
21.4003		Available to finance new budget plans Depropriesion from/to prior year budget plans	008,41-			-14,800		
22.4001	בֿ	Unobligated balance transferred to other acc	01.5			a.		
25.0001		•	7,147			7,147		
				1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
39.0001	Budget a	Budget authority						
1								*********

.incraft Procurement, Army Program and Financing (in Thousands of dollars) FISCAL YEAR 1988

			Budget Plan actions	Budget Plan (amounts for PROCUREMENT actions programed)	PROCUREMENT		Obligations	
Identifi	Identification code	21-2031-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
00.0101	Program by activities: Direct program: Aircraft Modification of al Spares and repair Support equipment	rect program: Aircraft Modification of aircraft Spares and repair purts Support equipment and facilities				111,952 157,815 53,118 71,856	57,029 82,528 7,825 18,547	
1016.00	Total direct program	t program	1 1 1 1 1 1 1	 	\$ 	394,741	165,929	1
1010.10	Reimbursable program	program			,	15,793	5.817	
10.0001	Total		; 1 1 1 1 1 1 1	[]]]] ! ! ! !	 	410,534	171,746	
11.0001 13.0001 17.0001 17.0001 21.4003 22.4090 23.4090 24.4002 24.4003	2	Offsetting collections from: Federal funds(-) Trust funds(-) Recovery of prior year obligations Unobligated balance available, start of year: For completion of prior year budget plan: Available to finance new budget plan: Reprograming from/to prior year budget plan: Reprograming from/to prior year budget plan: Reduction pursuant to P.L. 99-177 in unob ba Unobligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budget	-30,000 -4,503 32,165	-2,338		571 -8,042 -579,684 -30,000 32,165 171,746 2,338	-171,746 -2,338 2,338	

Aircraft Procurement, Army Program and Financing (in Thousands of dollars) FISCAL YEAR 1989

Programme Di	reation code 21-2031-0-1-051 Program by activities: Direct program: Aircraft Modification of aircraft Spares and repair parts Support equipment and facilities Total direct program Reimbursable program	1989 actual	1990 est.		1	,	
900	by activities: i program: Iraft lification of aircraft les and repair parts fort equipment and facilities al direct program			1991 est.	1989 actual	1990 est.	1991 est.
	al direct program ursable program	1,409,508 773,731 547,316 124,650			1,206,567 599,875 520,416 102,831	127,760 125,657 9,381 15,918	75,181 48,199 17,518 5,901
01.0101 Reimbu		2,855,205	1 1 6 7 1 1 1	1 1 1 1 1 1 1 1 1 1	2,429,689	3,404	146,800
10.0001 Total	_	2,908,458	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	2,479,538	282,120	146,800
Financing:	Offsetting collections from: Federal funds(-) Trust funds(-) Trust funds(-) Trust funds(-) For completion of prior year budget plans For transplable to finance new budget plans Available to finance available, end of year: For completion of prior year budget plans Available to finance subsiquent year budget Available to finance subsiquent year budge	-30,837			-30,837 -22,416 -28,920 5,995	-428,920 -5,995 5,995 146,800	-146,800
39.0001 Bu	Budget authority	2,861,200			2,861,200		
100 100 100 100	Budget authority: Appropriation Reduction pursuant to P.L. 100-463 Transferred to other accounts(-) Appropriation (adjusted)	2,883,700 -912 -21,588 2,861,200			2,883,700 -912 -21,588 		

Aircraft Procurement, Army Program and Financing (in Thousands of dollars) FISCAL YEAR 1990

		Budget Plan actions	(amounts for programed)	PROCUREMENT		Obligations	
dentiff	Identification code 21-2031-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
G.	Program by activities: Direct program:	; ; ; ; ; ; ; ; ; ; ; ;	6 3 1 1 1 1 1 1 1 1	• • • • • • • • • • • • • • • • • • •	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	• 1	
1010.00	Aircraft Aircraft		1,912,948			1,634,723	180,937
00.0301	Sobras and receit conts		534,090			456.374	5.1.547
00.0401	Support equipment and facilities		223,111			190,670	21,098
1016.00	Total direct program	; 1 1 1 1 1 1 1 1 1	3,715,480	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	3,175,543	351,148
01.0101	Reimbursable program		60,300			60,300	
10.000.01	Total	; ; ; ; ; ; ; ;	3,775,780	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	3,235,843	351,148
11.0001 13.0001			-46,496 -13,311 -493			-46,496 -13,311 -493	
21.4002 21.4003				-16,000			-539,937 -16,000
24.4002 24.4003	Unobligated talance available, end of year: For completion of prior year budget plans Available to finance subsequent year budge		16,000				8
39.0001	Budget authority		3,731,480	-16,000	1	3,731,480	-16,000
40.0001 40.0005 40.0090 41.0001	want t		3,789,937 ~1,058 -44,799 -12,600			3,789,937 -1,058 -44,799 -12,600	
41.2201	Transferred to other accounts (unob bals)			-16,000	3 3 1 6 8 9 1 1		-16,000
43.0001	Appropriation (adjusted)		3,731,480	ġ.		3,731,480	-16,000

Aircraft Procurement, Army Program and Financing (in Thousands of dollars) FISCAL YEAR 1991

			Budget Plan actions	Budget Plan (amounts for PROCUREMENT actions programed)	PROCUREMENT	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	Obligations	1
Identif	Identification code	21-2031-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
00.0101 00.0201 00.0401	Program by activities: Direct program: Aircraft Modification of ai	iram by activities: frect program: Aircraft Modification of aircraft Support equipment and facilities	/ 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 4 1 1 1 1	687,572 624,682 270,946	; ; ; ; ; ; ; ; ; ;		584,422 533,124 231,592
1016.00	Total direct program	ct program	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1,583,200	} 1 1 1 1 1 1 1 1	1 1 1 1 1	1,349,138
01.0101	Reimbursable program	program			53,600			53,600
10,0003	Total		i 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1,636,800	i ! ! ! ! !	 	1,402,738
11.0001 13.0001 14.0001 24.4002	Financing: Offsetting collect Federal funds(-) Trust funds(-) Non-Federal sour Unobligated balanc	nancing: Offsetting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-) Unobligated balance available, end of year: For completion of prior year budget plans			-39,796 -13,311 -493			-39,796 -13,311 -493 234,062
40.0001	•	Budget authority (Appropriation)			1,583,200		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,583,200

AIRCRAFT PROCUREMENT, ARMY

Section 2

Budget Activity Justification

Activity 1 - Aircraft

Activity 2 - Modification of Aircraft

Activity 3 - Spares and Repair Parts

Activity 4 - Support Equipment and Facilities

PY 1991 BUDGET	(THOUSANDS OF DOLLARS	Actual Actual Estimate	FY 1989 FY 1990 FY 1991	\$1,409,508 \$1,912,948 \$687,572
Appropriation: AIRCRAFT PROCUREMENT, ARMY	(THOUSA			
Department of the Army Annual Budget Estimates JUSTIFICATION	Program or Budget Project Account Activity 1 - Aircraft		Direct Budget Blan	Direct panger Liam

Section 1 - PURPOSE AND SCOPE

Provides for procurement and manufacture of airplanes, helicopters, and associated aircraft armament,

FY 1991 (\$ in Thousands) FY 1990 Section 2 - JUSTIFICATION OF FUNDS REQUESTED flight simulators, training devices and avionics equipment. Grisly Hunter - (P-1 Line Item No. 1):

Program description is provided separately. These funds are requested for a classified program.

RC-12H/K Reconnaissance Airplane (P-1 Line Item No. 2):

FY 1991 (\$ in Thousands) FY 1990 \$ 52,016

\$ 9,781

equipment. In FY 1991, requested funding (\$87.4M) will procure five additional RC-12K aircraft and the related mission equipment. This system, GUARDRAIL Common Sensor, provides full Signal Intelligence support, Funding in FY 1990 (\$52.0M) procured five RC-12K reconnaissance aircraft and associated mission including ELINT and COMINT at the Corps level.

Total Package Fielding (P-1 Line Item No. 3):

\$ 16,200 (\$ in Thousands) Y 1990 FY 1991 FY 1990

FY 1991 request is for initial support equipment which is packaged with equipment end items prior to delivery of the equipment to Army units. AH-64 Attack Helicopter (APACHE) - (P-1 Line Item No. 4 and 5):

(\$ in Thousands) FY 1990 FY 1991 \$1,469,522 \$104,226

and overhead costs for those aircraft procured in prior years still coming out of production. The APACHE is a armored vehicles under day, night and adverse weather conditions. The aircraft employs the HELLFIRE anti-tank Designation Sight (TADS) which enables extremely accurate fire with a high first round hit probability. Night navigation is provided by the Pilot Night Vision Sensor (PNVS). The mobility, flexibility, and rapid response of the AH-64 will provide the balance required to help counter the Warsaw Pact threat and allow the AH-64 to be a key member of the Rapid Deployment Force. The request also includes funding (\$12.3 million in FY 1990 requested in FY 1991 vill provide for termination costs associated with ending of production and management and \$12.9 million in FY 1991) to procure 4 Combat Weapon Emergency Procedures Trainers in FY 1990 and 5 in missile, Hydra 70 rockets, and 30mm gun. Target acquisition is accomplished by the Target Acquisition and twin-engine, two-place, fully integrated anti-armor weapon system capable of destroying tanks and other The \$104.2 million \$1,469.5 million in FY 1990 will procure 132 AH-64 APACHE Attack Helicopters.

UH-60 BLACK HAVK (Multiyear Procurement) - (P-1 Line Item 6 and 7):

(\$ in Thousands) FY 1990 FY 1991 \$381,629 \$469,309 \$381.6 million in FY 1990 procured 72 UH-60 BLACK HAWK helicopters, including 11 airframes for conversion maintainability, and survivability at reduced overall operating costs. This utility helicopter is the Army's helicopters including another 11 airframes for conversion to the MH-60K configuration. These funds include \$197.2 million in FY 1991 for advance procurement of long leadtime items required to support the follow-on multiyear procurement of airframes. The BLACK HAWK will modernize the Army's utility helicopter fleet. Will enhance tactical mobility with increased speed, lift capacity, range, reliability, availability, to the MH-60K configuration. The \$469.3 million requested in FY 1991 is to procure 72 UH-60 BLACK HAVK first true squad carrying helicopter.

	1		ı	
FY 1991 BUDGET		Rstimate	FY 1991	\$624,682
	(3)	Actual	FY 1990	1,045,331
	(THOUSANDS OF DOLLARS)	Actual	FY 1989 FY 1990 FY 1991	\$773,731 \$
UT	(THOUSANI			
ENT, ARHY				
Appropriation: AIRCRAFT PROCUREMENT,				
Department of the Army Annual Budget Estimates JUSTIFICATION	Program or Budget Project Account	- Alfcraft Hodifications		et Plan
Department Annual Budg	Program or	Activity 2	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Direct budget Flan

Section 1 - PURPOSE AND SCOPE

Provides for modifications of items and upgrade of equipment procured by the Aircraft Procurement, Army appropriation, including modification kits.

Section 2 - JUSTIFICATION OF PUNDS REQUESTED

FY 1990 \$ 82,234 Installation of Modernization Equipment - (P-1 Line Item No. 8):

FY 1991

(\$ in Thousands)

modernization equipment. FY 1991 installation funding is included in each individual modification program. Funds in FY 1990 provided for application of modification kits (formerly funded in Operation and Maintenance, Army). This transfer from OMA reflects the application of the full funding policy to

OV-1 Surveillance Airplane MODS - (P-1 Line Item No. 9):

(\$ in Thousands) FY 1990 FY 1993 \$ 200 \$ 200

Punds in FY 1990 and FY 1991 provide sustainment funding for continued safety reliability and maintainability improvements.

RC-12D MODS - (P-1 Line Item No. 10):

(\$ in Thousands) FY 1990 FY 1991 \$ 42,554 \$ 31,604 These funds are requested to procure mission equipment and ground support equipment to upgrade GUARDRAIL/ Common Sensor aircraft procured in previous years.

RU-21 MODS - (P-1 Line Item No. 11):

(\$ in Thousands)
FY 1990 FY 1991
\$ 1,513 \$ 9,737

supportability for the avionics and provide active countermeasures against hostile Continuous Wave radars and These funds are requested to complete upgrades in avionics to the RU-21A/B/C/H and upgrades to the aircraft survivability equipment for the RU-21H. Upgrades are required to overcome marginal logistics surface-air and air-air missile systems.

AH-1S MODS - (P-1 Line Item No. 12):

(\$ in Thousands) FY 1990 FY 1991 \$ 5,820 \$ 7,977

reliability, safety and capability, and extend the life and increase operational readiness. FY 1991 funds will provide for improvements to the air filter and TOW missile system test set, and redesign of the These funds are requested to continue modifications to the AH-1 COBRA fleet which will improve swashplate

AH-64 MODS - (P-1 Line Item No. 13):

(\$ in Thousands) FY 1990 FY 1991 \$ 20,745 \$ 85,687 These funds are requested to continue modifications to the AB-64 APACEE helicopter, including integration of the Air-to-Air Stinger and Airborne Target Handover System; improvements to optics; procurement of laser protective visors; and installation of electromagnetic interference protection, the AN/AVR-2 laser warning receiver and secure lighting.

CH-47 Cargo Helicopter (MODS) - (P-1 Line Item No. 14 and 15):

(\$ in Thousands) FY 1990 FY 1991 \$273,703 \$294,204

medium lift helicopter and is a key element in the Rapid Deployment Force. Operating at a rate of 48 aircraft These funds are requested to continue the modernization program which upgrades CH-47 A and C models to vulnerability, and increase life expectancy of each aircraft 20 years. The CH-47 is the Army's only active the D configuration. These advances in design technology improve reliability and maintainability, reduce per year, the total modernization program of 472 aircraft will be completed with a three year multi-year contract in FY 1990-1992.

08-58 HODS - (P-1 Line Item No. 16):

(\$ in Thousands) FY 1990 FY 1991 \$ 22,959 \$ 24,695

modifications will also provide a standoff, defensive/offensive capability against airborne and other armed These funds are requested to continue safety and operational enhancements to the current fleet. The threats.

UE-1 MODS - (P-1 Line Item No. 17):

(\$ in Thousands)
FY 1990 FY 1991
\$ 9,489 \$ 26,838

Improved Particle Separator, Improved Oil Filtration, and installation of Single Channel Ground/Airborne Radio These funds are requested to continue safety and sustainment modifications that will provide the Army an effective and supportable fleet of lift helicopters through the year 2007. FY 1991 modifications include (SINCGARS). Also included in the request are funds for upgrades to UH-1 Flight Simulators.

UH-60 MODS - (P-1 Line Item No. 18):

(\$ in Thousands)
PY 1990 FY 1991

\$ 40,357 \$ 83,527

These funds are requested to continue various safety and operational modifications to the UH-60 BLACK nap-of-the-earth communications, flight data recorder, glass vindshield, MEDEVAC kits, and Command Control HAWK helicopter. FY 1991 modifications include electromagnetic environment protection, external stores support system, hover infrared suppressor system, SINCGARS, auxillary power unit particle separator,

Army Helicopter Improvement Program (AHIP) - (P-1 Line Item No. 19 and 20);

(\$ in Thousands) FY 1990 FY 1991 \$192,349 \$ 47,993

Funds requested in FY 1991 will provide for the conversion of OR-58D helicopters to an armed configuration. Funds appropriated in FY 1990 allow the modification of 36 helicopters to the OH-58D configuration.

Aircraft Survivability Equipment (ASE) MODS - (P-1 Line Item No. 22);

FY 1991 (\$ in Thousands) FY 1990 FY 199

\$ 11,453 \$ 7,041

These funds are requested to continue modifications for aircraft survivability equipment to meet current nev and emerging threats. FY 1991 modifications include the AN/ALQ-144 Infrared Jammers and upgrades to the AN/APR-39A(V)1 Spiral Antenna Assembly.

Aircraft 900 MODS - (P-1 Line Item No. 23):

(\$ in Thousands)
FY 1990 FY 199 \$ 19,484

Program description was provided \$19.5 million in FY 1990 was appropriated for a classified program. separately.

Special Operations Forces (SOF) Aircraft MODS - (P-1 Line Item No. 24 and 25):

FY 1991 (\$ in Thousands) FY 1990 \$326,101

range operations at tactical altitudes through unfamiliar mountainous terrain in support of special operations upgrade MH-47E and MH-60K helicopters to configurations necessary to conduct precise navigation and extended Operations Forces aircraft. The SOF Aircraft Modifications program provides for necessary modifications to forces. In FY 1991 funding responsibility is transferred to Special Operations Command and is reflected in Funds in FY 1990 provide for modifications to CH-47 and UH-60 airframes into MH-47E and MH-60K Special the Procurement, Defense Agencies budget request.

Tractor Heavy - (P-1 Line Item No. 26):

(\$ in Thousands) FY 1990 3 782

Program description is provided 5.8 million in FY 1991 is requested for a classified program. separately.

Department of the Army Annual Budget Estimates JUSTIFICATION	Appropriation: AIRCRAFT PROCUREMENT, ARMY			FY 1991 BUDGET	
Program or Budget Project Account Activity 3 - Spares and Repair Parts		(THOUSANDS OF DOLLARS)	RS)		
		Actual	Actual	Estimate	
Direct Budget Dlan		FT 1989	FY 1990 FY 1991	FY 1991	
Direct punker right		\$547,316	\$534,090	0	1

Section 1 - PURPOSE AND SCOPE

Provides for procurement of depot repairable spares and repair parts including provisioning (initial issue), replenishment, mobilization reserve, and avionics spares.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Spares and Repair Parts - (P-1 Line Item No. 27):

(\$ in Thousands)
FY 1990 FY 1991
\$534,090 \$ --

Initial Spares: In FY 1990 \$175.2 million was appropriated to procure spares and repair parts in ort of initial fielding of new or modified systems. These funds also support the procurement of aircraft development of any aircraft system (new procurement or modification). Initial spares are ordered to support the major item delivery and fielding schedule to preclude grounding the system for lack of spare parts. Aircraft end items supported in engines and engine modules over the life cycle of the aircraft. Spares are an integral part of the FY 1991 Initial Spares will be procured using the Army Stock Fund. support of initial fielding of new or modified systems. FY 1990 were:

(\$ Millions) FY 1990	22.0 66.2 49.1
Program	RC-12K AH-64 UH-60

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(\$ Millions) FY 1990	5.0 2.1 17.0 ort Equipment 1.8 .1 .2 3.6
Program	AH-1S CH-47D ASE Avionics Support Equipment AGSE Hellfire ATAS Avionics

Total Initial Spares

peacetime replenishment spares support the Army's flying hour program, depot and pipeline requirements for the life of the system. War reserves provide initial combat surge support until resupply can be established. Beginning in FY 1991, Replenishment Spares will be procured using the Army Stock Fund. Replenishment Spares: \$358.9 million in FY 1990 was appropriated for replenishment spares.

			1	l
FT 1991 BUDGET		Estimate	FY 1990 FY 1991	\$270,946
	ARS)	Actual	FY 1990	\$223,111
	(THOUSANDS OF DOLLARS)	Actual	FY 1989	\$124,650
ARHY	(THOUSA			
Appropriation: AIRCRAFT PROCUREMENT, ARMY				
Appropriati AIRCRAFT PB	Facilities			
Aray mates	Project Acc rt Equipmen	•		
Department of the Army Annual Budget Estimates JUSTIFICATION	Program or Budget Project Account Activity 4 - Support Equipment and		lireat Budget Bles	mar Lagnag
Departa Annual Ju	Program Activit		Direct	1

Section 1 - PURPOSE AND SCOPE

(including tool sets, shop sets and components thereof), ground handling/servicing equipment, special test and equipment (ALSE); for tactical air traffic control systems; for industrial facilities including provisions for diagnostic equipment, fixed base airfield support equipment (air traffic control), and aviation life support industrial facilities, depot maintenance plant equipment and value engineering; and for war consumables Provides for aircraft survivability equipment, avionics support equipment, common ground equipment including lightweight rocket launchers.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Aircraft Survivability Equipment (ASE) - (P-1 Line Item No. 28):

passive, against antiaircraft systems. It enables Army tactical aircraft to accomplish missions on the modern Jammers/Countermeasures, and Interactive Cystems. The ASE program provides self-protection, both active and Funding is required to continue procurement of Radar Warning Receivers, Infrared Jammers, Radar battlefield by enhancing aircraft and aircrew survivability.

Airborne Command and Control Consoles - (P-1 Line Item No. 29):

(\$ in Thousands) FY 1990 FY 1991 \$ 4,743 \$ -

Funding in FY 1990 provides for production and installation of the AN/ASC-15B console.

Avionics Support Equipment - (P-1 Line Item No. 30):

(\$ in Thousands) FY 1990 FY 1991 \$ 30,422 \$ 43,634

Funding is requested to procure third generation aviation night vision goggles which provide enhanced warfighting capability during night helicopter operations.

Common Ground Equipment - (P-1 Line Item No. 31);

(\$ in Thousands) FY 1990 FY 1991 \$ 45,777 \$ 67,894

Airfield Support Equipment; Aviation Life Support Equipment; Sets, Kits and Outfits; Aviation Ground Support Funding is required to continue procurement of various items of aircraft support equipment, including Equipment; Position Locator System; and the AN/PRC-112 Survival Radio.

Air Traffic Control - (P-1 Line Item No. 32):

(\$ in Thousands) FY 1990 FY 1991 \$ 7,690 \$ 8,690 \$7.7 million in FY 1990 and \$8.7 million in FY 1991 is requested to continue the procurement of tactical Air Traffic Control (ATC) systems to fill critical shortages of equipment in both Active and Army National Guard units.

Synthetic Flight Training Systems - (P-1 Line Item No. 33):

(\$ in Thousands) FY 1990 FY 1991 \$ 9,841 \$ 10,426 Funding is required for upgrades to the AH-1 Flight/Weapons Simulator. This item is obsolete and is not replacement and upgrades to avionics, aircraft survivability equipment, weaponization, and other changes supportable except through firms dealing in used computer equipment. Upgrade will consist of computer dictated by aircraft modifications.

Industrial Pacilities - (P-1 Line Item No. 34):

(\$ in Thousands) FY 1990 FY 1991 \$ 22,751 \$ 27,838

(\$16.9 million) and Value Engineering (\$1.3 million). The FY 1991 request includes funding for Rehabilitation and Provisioning of Incustrial Facilities (\$11.1 million), Depot Maintenance Plant Equipment (\$15.4 million) The FY 1990 funds are for Rehabilitation and Provisioning of Industrial Facilities (\$4.6 million), Depot Maintenance Plant Equipment Funding is requested to support Army Aviation Program Industrial Facilities. and Value Engineering (\$1.3 million).

War Consumables - (P-1 Line Item No. 35):

(\$ in Thousands) FY 1990 FY 1991 \$ 4,221 \$ 4,574 Funding is requested for M260 and M261 Lightweight Rocket Launchers to be used on the AH-1 COBRA/TOW and AH-64 APACHE attack helicopters. These launchers are required in order to fire the new family of Hydra 70 rockets with remote set fuzing options.

AIRCRAFT PROCUREMENT, ARMY

Section 3

Comparison of Programing Requirements and Financing

FY 1990/1991 Amended Budget with FY 1990 program requirements as shown Comparison of FY 1990 program requirements as reflected in the in the FY 1991 Budget Estimate.

Amended Budget with FY 1990 financing as shown in the FY 1991 Budget Comparison of FY 1990 financing as reflected in the FY 1990/1991 Estimate. Comparison of FY 1989 program requirements as reflected in the FY 1990/1991 Amended Budget with FY 1989 program requirements as shown in the FY 1991 Budget Estimate.

Amended Budget with FY 1989 financing as shown in the FY 1991 Budget Comparison of FY 1989 financing as reflected in the FY 1990/1991 Estimate.

COMPARISON OF FY 1990 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY 1990/1991 AMENDED BUDGET WITH THE FY 1990 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1991 BUDGET ESTIMATE SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation Aircraft Procurement, Army	FY 1990 Requirements Per FY 1990/1991 Amended Budget	FY 1990 Requirements Per FY 1991 Budget Estimate	Increase (+) or Decrease (-)
Activity 1 - Aircraft	1,277,089	1,912,948	+635,859
Activity 2 - Modification of Aircraft	854,608	1,045,331	+190,723
Activity 3 - Spares and Repair Parts	553,423	534,090	-19,333
Activity 4 - Support Equipment and Facilities	220,980	223,111	+2,131
TOTAL	2,906,100	3,715,480	+809,380

EXPLANATION BY ACTIVITY

Activity 1 - Aircraft - The net increase results from Congressional adjustments to the AH-64 (\$+735,471), AH-64 Adv Proc (\$-36,500), UH-60 (\$+31,800), MH-60K (\$-71,300), general reductions for Gramm-Rudman-Hollings sequestration (\$-22,892) and contractor travel (\$-720).

Activity 2 - Modification of Aircraft - The net increase results from Congressional adjustments to AH-64 Mods (\$-17,104), CH-47 (\$-19,200), CH-47 Adv Proc (\$-8,300), OH-58 Mods (\$-5,000), AHIP (\$+195,000), SOF Mods (\$-9,900), Installation of Modernization Equipment (\$+84,070), general reductions for Gramm-Rudman-Hollings sequestration (\$-12,697) contractor travel (\$-146), and a deferral of the OV-1 Modification Program (\$-16,000).

and reprograming for Army Activity 3 - Spares and Repair Parts - The net decrease results from the general reduction for Gramm-Rudman-Hollings sequestration (\$-6,541), contractor travel (\$-192) and reprograming for 1 for Military Pay (\$-12,600).

Activity 4 - Support Equipment and Facilities - The net increase results from Congressional increase for Airborne Command and Control Module (\$+4,800) and general reduction for Gramm-Rudman-Hoilings sequestration (\$-2,669).

IN THE FY 1990/1991 AMENDED BUDGET WITH FY 1990 FINANCING COMPARISON OF FY 1990 FINANCING AS REFLECTED AS SHOWN IN FY 1991 BUDGET ESTIMATE

(In Thousands of Dollars)

Appropriation Aircraft Procurement, Army	Fy 1990 Financing Per Fy 1990/1991 Amended Budget	FY 1990 Financing Per FY 1991 Budget Estimate	FY 1990 Increase (+) or Decrease (-)
Program Requirements (Total) Program Requirements (Service Account) Program Requirements (Reimbursable)	2,955,400 (2,906,100) (49,300)	3,775,780 (3,715,480) (60,300)	+820,380 (+809,380) (+11,000)
Less: Anticipated reimbursements	-49,300	-60,300	-11,000
Unobligated balance available to finance new budget plans		- 8,333	- 8,333
Add: Unobligated balance available to finance subsequent year budget plans		+16,000	+16,000
Unobligated balance reduction pursuant to P.L. 99-177		+8,333	+8,333
BUDGET AUTHORITY Appropriation	2,906,100	3,731,480	+825,380

The reimbursable program (offsetting collections) increased by \$11,000 because of new Army National Guard orders.

EXPLANATION:

The unobligated balance available from prior year to finance new budget plans and unobligated balance reduction pursuant to P.L. 99-177 plans represents Gramm-Rudman-Wollings sequestration of FY 1989 (\$-5,995) and FY 1988 (\$-2,338) funds.

The unobligated balance available to finance subsequent year budget plans represents an FY 1990 deferral.

COMPARISON OF FY 1989 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY 1990/1991 AMENDED BUDGET WITH THE FY 1989 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1991 BUDGET ESTIMATE

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation Aircraft Procurement. Armv	FY 1989 Requirements Per	FY 1989 Increase (+)	Increase (+)
	FY 1990/1991 Amended Budget	te	Decrease (-)
Activity 1 - Aircraft	1,430,126	1,409,508	-20,618
Activity 2 - Modification of Aircraft	743,065	773,731	+30,666

-21,778	-16,583
124,650	2,855,205
146,428	2,871,788
Activity 4 - Support Equipment and Facilities	TOTAL

-4,853

547,316

552,169

Activity 3 - Spares and Repair Parts

EXPLANATION BY ACTIVITY

Activity 1 - Aircraft - The net decrease results from a Gramm-Rudman-Hollings sequestration (\$-2,872) and net below-threshold reprogramings (\$-17,746). Activity 2 - Modification of Aircraft - The net increase results from a Gramm-Rudman-Hollings sequestration (\$-2,270), Army reprogramings for O&M, A Readiness (Revised) (\$-7,588), ASE Modifications (\$+11,900) and net below-threshold reprogramings (\$+28,624).

Activity 3 - Spares and Repair Parts - The net decrease results from a Gramm-Rudman-Hollings sequestration (\$-379) and net below-threshold reprogramings (\$-4,474). Activity 4 - Support Equipment and Facilities - The net decrease results from a Gramm-Rudman-Hollings sequestration (\$-474), Army reprogramings for O&M, A Readiness (Revised) and net below-threshold reprogramings (\$-6,404). (\$-3,000), and ASE Modifications (\$-11,900)

IN THE FY 1990/1991 AMENDED BUDGET WITH FY 1989 FINANCING COMPARISON OF FY 1989 FINANCING AS REFLECTED AS SHOWN IN FY 1991 BUDGET ESTIMATE

		(In Thousand	(In Thousands of Dollars)
Appropriation Aircraft Procurement, Army	FY 1989 Financing Per FY 1990/1991 Amended Budget	FY 1989 Financing Per FY 1991 Budget Estimate	FY 1989 Increase '+) or Decrease (-)
Program Requirements (Total) Program Requirements (Service Account) Program Requirements (Reimbursable) Less:	2,932,088 (2,871,788) (60,300)	2,908,458 (2,855,205) (53,253)	
Anticipated reimbursements	-60,300	-53,253	+7,047
Unobligated balance available to finance new budget plans Reprograming from/to prior year budget plans	-44,800 6,290	-44,800 -5,360	0 -11,650
Add: Unobligated balance transferred to other accounts Unobligated balance available to finance subsequent year budget plans	38,510	40,675 8,333	+2,165 +8,333
Unobligated balance lapsing		7,147	+7,147
BUDGET AUTHORITY Appropriation	2,871,788	2,861,200	-10,588
- NOTHANATION			

The reimbursable program (offsetting collections) decreased by \$11,000 because orders from Foreign Military Sales did not materialize as anticipated.

99-177 plans represents Gramm-Rudman-Hollings sequestration of FY 1988 (\$-2,338) funds, FY 1988 United Nations Peacekeeping Transfer (\$-2,165) and FY 1988 unobligated balance lapsing (\$-7,147). The reprograming to/from prior year budget plans was adjusted: reduction pursuant to P.L.

The unobligated balance transferred to other accounts resulted from an FY 1988 United Nations Peacekeeping Transfer (\$2,165).

The unobligated balance available to finance subsequent year budget plans resulted from Gramm-Rudman-Hollings sequestration to FY 1989 (\$5,995) and FY 1988 (\$2,338). AIRCRAFT PROCUREMENT, ARMY

Section 4

Status of Aircraft Modification Programs

Status of Aircraft Modification Program

FY 1990 Modification Programs

Programs as of 30 November 1989 (\$ Millions)

Program	Appropriated	Reprogramming	Total Program Value	Total Obligations	Total Disbursements
Airplane, Surveillance, OV-1	15.2	1	15.2	•	1
RC-12D Mods	43.1	ı	43.1	1	
RU-21 Mods	1.5	ı	1.5	1	1
Helicopter, Attack, AH-1S	5.9	ı	5.9	5.6	ı
AB-64 Mods	21.0	ı	21.0	1	1
Helicopter, Cargo, CH-47 Mods	277.0	ı	277.0	31.3	ı
0H-58 Mods	23.2	1	23.2	1	1
Helicopter, Utility, UH-1	9.6	ı	9.6	1	ı
UH-60A Mods	40.9	1	6.04	ı	ı
Army Helicopter Improvement Program (AHIP)	195.0	1	195.0	ı	ı
ASE Mods	7.1	t	7.1	1	1
Aircraft 9WV	19.7	ı	19.7	1	ı
SOF Aircraft Mods	330.0	ı	330.0	1	1
Tractor Heavy Mods	∞.	1	ω.	ı	1

Status of Aircraft Modification Program

FY 1989 Modification Programs

Programs as of 30 November 1989 (\$ Millions)

Program	Appropriated	Reprogramming	Total Program Value	Total Obligations	Total Disbursements
Airplane, Surveillance, 0V-1	6.2	6.6	16.1	15.6	ŧ
Airplane, Reconnaissance, RC-12D	31.9	7.3	39.2	36.7	1.5
Airplane, Reconnaissance, RU-21H	7.5	-3.5	4.0	ı	1
Helicopter, Attack, AH-1S	29.3	2.5	28.8	28.8	8.1
AH-64 Mods	6.3	-4.1	2.2	1	ı
Helicopter, Cargo, CH-47 Mods	246.3	1.2	247.5	243.1	10.6
Helicopter, Observation, OH-58	17.4	ı	17.4	13.4	ω .
UH-60A Mods	23.4	6.6	33.3	22.6	•
Army Helicopter Improvement Program (AHIP)	202.6	ı	202.6	154.3	13.7
Airborne Avionics	2.7	1.8	4.5	4.2	-:
ASE Mods Close Combat	13.1	6.6	23.0	22.9	2.6
Aircraft 9WV	24.0	1	24.0	15.4	6.5
SOF Aircraft	120.5	ı	120.5	61.5	7.2

Status of Aircraft Modification Program

FY 1988 Modification Programs

Programs as of 30 November 1989 (\$ Millions)

Program	Appropriated	Reprograming	Total Program Value	Total Obligations	Total Dishursements
Airplane. Surveillance, OV-1	17.0		17.0	7 1	
		1	70	T . 0	7•7
Airplane, Reconnaissance, RU-21H	3.2	-2.2	1.0	1	1
AB-64 Mods	62.2	4.4	9.99	46.5	14.8
Helicopter, Cargo, CH-47 Mods	226.9	9.	227.5	222.0	160.5
Helicopter, Observation, OH-58	27.0	5.9	33.1	31.1	18.8
Helicopter, Utility, UH-1	2.2	-1.7	5.	ı	1
UB-60A Mods	30.9	10.0	6.04	32.7	5.3
Army Helicopter Improvement Program (AHIP)	160.1	မှ	160.4	152.9	60.3
Airborne Avionics	1.0	7.0	8.0	6.	'n.
ASE Mods Close Combat	.1	1	1	1	ı
Aircraft 9WV	25.8	ı	25.8	21.6	13.7
SOF Aircraft Hods	54.9	ı	54.9	44.7	6.6

AIRCRAFT PROCUREMENT, ARMY

Section 5

Flight Simulator Procurement Program

Exhibit PB-32E

Exhibit P-43

FLIGHT SIMULATOR DATA SHEET FY 1990/1991 Program

Simulator Model: AH-64 Combat Weapon Emergency Procedures Trainer

Aircraft System Supported: AH-64 APACHE

Description of Simulator: The Combat Weapon Emergency Procedures Trainer (CWEPT) consists of a full scale mock-up crew station for the pilot and copilot/gunner, electronically interconnected to both crew stations. This will provide the instructor a means to instruct and develop procedures as well as complete weaponization training for the aircrew. It is completely computerized to provide proper inputs. The CWEPT is capable of either providing automated training scenarios or allowing instructor/crew member interaction. The AH-64 CWEPT will enable AH-64 attack helicopter units to train pilots and copilots/ gunners in cockpit procedures, weapon switchology, crew integration, and emergency procedures. Training on certain tasks and maneuvers is not possible in the aircraft because of the cost of ammunition and availability of laser ranges. Without the use of the CWEPT, AH-64 aircrews will have to train individual tasks in the Combat Mission Simulator (CMS) or the actual aircraft. This places an extra time restriction on both assets that could more effectively be transferred to the CWEPT. A cost avoidance will be realized in CWEPT versus CMS/Aircraft operating cost.

Development Status: Six production devices in addition to the prototype were planned in the Basis of Issue Plan. The production devices are similar to the prototype with all devices (visual systems and aircraft configuration) undergoing upgrades beginning in FY 1988 under a pre-planned product improvement program.

Funding Data: (\$ in millions)	FY 1989	FY 1990	FY 1991
Quantity	0	4	5
Procurement (APA)	\$0.0	\$12.3	\$12.9
RDTE	0	0	0
Total	\$0.0	\$12.3	\$12.9

Basis for FY 1990/1991 Request: In FY 1990, 4 CWEPTs will be procured; in FY 1991, 5 CWEPTs will be procured.

Contract Data: The FY 1990 award is scheduled for February 1991 with delivery in November 1993. The FY 1991 award is scheduled for February 1992 with delivery in November 1994.

FLIGHT SIMULATOR DATA SHEET FY 1990/1991 Program

Simulator Model: AH-64 Combat Mission Simulator

Aircraft System Supported: AH-64 APACHE

Description of Simulator: The prototype AH-64 Combat Mission Simulator will be designed to provide a training capability for flight and weapon delivery, normal and emergency procedures and sensor system operating tasks required in the operational design basis helicopter. The simulator will consist of pilot and copilot/gunner trainee modules, instructor modules, motion subsystems, visual subsystems and a computer complex. The pilot and copilot/gunner trainee modules will be replicas of the actual aircraft cockpits, and each will be mounted on a six degree freedom-of-motion base. The visual subsystem will approximate crew member video displays. Simulated imagery includes Forward Looking Infrared (FLIR), Day Television (DTV) and Direct View Optics (DVO). Pilot displays consist of the Integrated Helmet and Display Sight System Helmet Display Unit (IHADDS HDU) and a panel mounted Video Display Unit (VDU). Gunner displays include the IHADSS HDU, a target acquisition and designation sight Heads Down Display (HDD) and a TADS Heads Out Display (HOD). The simulator functions will be controlled from the instructor's station located behind each trainee module. The pilot and copilot/gunner will have the capability to train individually or may train as a team performing an integrated combat mission. One CMS will be procured in FY 1989.

Development Status: Development of the CMS was completed in FY 1988 at a cost of approximately \$84.0 million.

Funding Data: (\$ in millions)	-	FY 1989	FY 1990	FY 1991
Quantity		2	0	0
Procurement (APA)		\$37.8	0	0
RDTE		0	0	0
Total		\$37.8	0	0

Basis for FY 1990/1991 Request: No CMS will be procured in FY 1990/1991.

Contract Data: Contract was awarded in September 1989 for CMS #8; in December 1989 an option to that contract was exercised to procure CMS #9.

EXHIBIT PB-32E

FY 1991 BUDGET ESTIMATE

FLIGHT SIMULATOR AND OTHER AIRCRAFT TRAINING EQUIPMENT

EXHIBIT P-43

(Dollars in Millions)

APPROPRIATION: Aircraft Procurement, Army

Weapon System	Equipment Nomenclature	P-1 Line Item	FY 1989 Qty/Amount	FY1990 Qty/Amount	PY 1991 Qty/Amount
AB-64 (2B40)(SSN A09000)	CHS	4	2/37.8		
AH-64 (2B40)(SSN A09000)	CVRPT	4		4/12.3	5/12.9